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(54) BURNER FOR GLASS PRODUCTION

(57)Abstract:

PURPOSE: To enable the production of a high quality glass parent material containing a high boiling solid dopant by uniting a dopant-vaporizer for high boiling dopant to the main body of the burner and placing the united burner in the heating furnace together with the dopant vaporizer.

CONSTITUTION: The major body of burner 1 which comprises the starting gas-feeding tube 2, hydrogen gas-feeding tube 3, oxygen gas-feeding tube 5 and seal gas-feeding tube is surrounded with dopant vaporizer 6 for high boiling solid dopant around the outer periphery.

The carrier gas-feeding tube 11 for conveying the vaporized dopant, the dopant gas-feeding tube 7 for conveying the dopant gas and the carrier gas into the starting gas-feeding tube 2 are connected to the dopant vaporizer 6. Further, the vaporizer 6 and the burner are placed in heating furnaces 12, 12.

